INDEX OF AUTHORS

BANES, A. J. 35
BARTEK, J. 17
BENNETT, M. D. 85
BRÜDERLEIN, M. 423

CARRINGTON, C. A. 269
CASSIMAN, J.-J. 411
COVE, D. J. 131

DARIDAN, M. 239
DAVID, G. 411
DELIVOPOULOS, S. G. 215
DELTOUR, R. 43
DOONAN, J. H. 131
DUNNEBACKE, T. H. 1
DURBAN, E. M. 17

ELEFTHERIOU, E. P. 165
ENGSTRÖM, W. 259

GARDNER, D. R. 181
GARROD, D. R. 377
GASSER, D. 411
GILBERT, J. 35

HALLOWES, R. C. 17
HESLOP-HARRISON, J. S. 85
HOSICK, H. L. 269

JEFFRIES, P. 195

KHOKHLOV, S. YE. 303
KOFFER, A. 239
KREFFT, M. 423
KUGRENS, P. 215

LACKIE, A. M. 207
LARSSON, O. 259
LINGWOOD, C. A. 329
LLOYD, C. W. 131, 225

MARUYAMA, T. 313
MARYNEN, P. 411
MATTEY, D. L. 377
MCBURNEY, M. W. 149
MCDONALD, K. L. 93
MCINTOSH, J. R. 93
MITCHISON, J. M. 357
MONBUREAU, O. 35

NEIGHBORS, B. 93
NEVOROTIN, A. J. 303
NURSE, P. 357

PATERNO, G. D. 149

ROOS, U.-P. 93

SCHUSTER, F. L. 1
SHARPE, P. T. 339
SISKEN, J. E. 347
STEPHEN, J. 401
SWALES, L. S. 181

TAKLE, G. 207
TARIQ, V.-N. 195
TAYLOR, D. 35
TAYLOR-PAPADIMITRIOU, J. 17

VAN DEN BERGHE, H. 411
VAN DER SCHUEREN, B. 411
VAN LEUVEN, F. 411
VEDBRAT, S. 347
VERSCHUEREN, H. 279
VOET, L. 423

WARLEY, A. 401
WATTS, D. J. 339
WELLS, B. 225
WILLIAMS, K. L. 423

ZETTERBERG, A. 259
ZIEGLER, M. L. 347

INDEX OF SUBJECTS

Actin
regulating activities in cultured BHK cells: KOFFERT & DARIDAN 239
Adrenohyphophyseal cells
of rat, ultracytochemistry: KHOKHLOV & NEVOROTIN 303
Asymmetrical divisions
in root protophloem ontogeny in wheat: ELEFTHERIOU 165
Autoradiography
in study of sulphogalactolipid biosynthesis in rat testis: LINGWOOD 329

BHK cells
actin-regulated activities: KOFFER & DARIDAN 239
Bivalents
interlocked, in reconstructed metaphase I cells of bread wheat: HESLOP-HARRISON & BENNETT 85

Calcium ions
role in cell division of HeLa cells: ZIEGLER, SISKEN & VEDBRAT 347
Cationized ferritin-binding
in study of insect haematocyte surface charge: TAKLE & LACKIE 207
***cdc* mutants**
in length growth study of fission yeast: MITCHISON & NURSE 357
Cell adhesion
by IRM: VERSCHUEREN 279
intercellular, not species-specific: MATTEY & GARROD 377
Cell cycle
in *Schizosaccharomyces pombe*: MITCHISON & NURSE 357
Cell surface
of *Dictyostelium*, changes during growth: SHARPE & WATTS 339
Cell wall
inner fibrils, correspond with microtubular helical patterns in tips of root hairs: LLOYD & WELLS 225
Ceratium tripos
extraction model of longitudinal flagellum: MARUYAMA 313
Chloroplast ultrastructure
of *Phaseolus* infected by *Sclerotinia*: TARIQ & JEFFRIES 195

Co-culture
of mammary fat pad and mammary epithelial cells in study of their interaction: CARRINGTON & HOSICK 269
Collagen
gel culture of mammary fat pad cells in cell growth study: CARRINGTON & HOSICK 269
Compression of cells
by stress-providing instrument: BANES, GILBERT, TAYLOR & MONBUREAU 35
Cytopathogenic material
of *Naegleria* amoeba, response of cultured cells to: DUNNEBACKE & SCHUSTER 1
Cytokeratin
antibodies in definition of mammary gland luminal epithelial cells: BARTEK, DURBAN, HALLOWES & TAYLOR-PAPADIMITRIOU 17
Cytoskeleton
of tip cells in moss cells: DOONAN, COVE & LLOYD 131

Desmosomes
formation is not species-specific: MATTEY & GARROD 377
Dictyostelium discoideum
anterior-like cells studied by flow cytometry: VOET, KREFFT, BRÜDERLEIN & WILLIAMS 423
architecture of microtubules of mitotic spindles: MCINTOSH, ROOS, NEIGHBORS & MCDONALD 93
cell surface changes during growth: SHARPE & WATTS 339
Dietary fat
effects on growth of normal, preneoplastic and neoplastic mammary epithelial cells: CARRINGTON & HOSICK 269
Differentiation
induced, in a mouse embryonal carcinoma cell line: PATERNO & MCBURNEY 149

EC cells
mouse, X chromosome inactivation during induced differentiation: PATERNO & MCBURNEY 149
Enzyme activity
in rat adenohypophyseal cells: KHOKHLOV & NOVOROTIN 303
Epithelia
from different vertebrate species form mutual desmosomes: MATTEY & GARROD 377

Faucheocolax
carposporogenesis, thylakoid formation: DELIVOPOULOS & KUGRENS 215
Fission yeast
growth in cell length: MITCHISON & NURSE 357
Flagella
of *Ceratium tripos*, reactivation of retraction: MARUYAMA 313
Flow cytometry
study of *Dictyostelium* anterior-like cells: VOET, KREFFT, BRÜDERLEIN & WILLIAMS 423

Germination
of higher plant embryos, nuclear activation: DELTOUR 43
Glycolipid
synthesis in rat testis: LINGWOOD 329

HeLa cells
effect of calcium-releasing agents on cell division: ZIEGLER, SISKEN & VEDBRAT 347
HeLa cells
infected with vaccinia virus, X-ray microanalysis: WARLEY & STEPHEN 401
Human fibroblasts
receptor-mediated endocytosis of gold-labelled α_2-macroglobulin complexes in: VAN DER SCHUEREN, GASSER, MARYNEN, VAN LEUVEN, DAVID, CASSIMAN & VAN DEN BURGHE 411

Insect haematocytes
surface charge examined by cell electrophoresis and ferritin binding: TAKLE & LACKIE 207
Interlocked bivalents
in reconstructed metaphase I cells of bread wheat: HESLOP-HARRISON & BENNETT 85
Ionophores
in study of role of calcium in HeLa cell division: ZIEGLER, SISKEN & VEDBRAT 347

Lanthanum
permeability of muscle fibres to: SWALES & GARDNER 181
Length growth
in *Schizosaccharomyces pombe*: MITCHISON & NURSE 357
Luminal epithelium
in human mammary gland defined by antibodies to cytokeratins: BARTEK, DURBAN, HALLOWES & TAYLOR-PAPADIMITRIOU 17

α_2-Macroglobulin
gold-labelled complexes, endocytosis by human fibroblasts: VAN DER SCHUEREN, GASSER, MARYNEN, VAN LEUVEN, DAVID, CASSIMAN & VAN DEN BURGHE 411
Mammary epithelium
effects of dietary fat on growth of: CARRINGTON & HOSICK 269
Mammary fat pad
interaction with mammary epithelial cells causes dietary-fat-induced cell growth: CARRINGTON & HOSICK 269
Mammary gland
luminal epithelial cells defined by antibodies to cytokeratins: BARTEK, DURBAN, HALLOWES & TAYLOR-PAPADIMITRIOU 17
Meiotic pairing
in reconstructed metaphase I cells of bread wheat: HESLOP-HARRISON & BENNETT 85
Metaphase
in HeLa cells, effects of perterbation of calcium pools: ZIEGLER, SISKEN & VEDBRAT 347
Microfilaments
regulation of protein in cultured BHK cells: KOFFER & DARIDAN 239
Microscopy
method and application of IRM, review: VERSCHUEREN 279
Microtubules
and root protophloem ontogeny in wheat: ELEFTHERIOU 165
at tips of root hairs from helical patterns: LLOYD & WELLS 225
in intact cell lineages of moss by immuno-fluorescence microscopy: DOONAN, COVE & LLOYD 131
of mitotic spindles in *Dictyostelium* architecture: MCINTOSH, ROOS, NEIGHBORS & MCDONALD 93
Mitosis
in HeLa cells, role of calcium: ZIEGLER, SISKEN & VEDBRAT 347
Monoclonal antibodies
in definition of mammary gland epithelial cells: BÁRTEK, DURBAN, HALLOWES & TAYLOR-PAPADIMITRIOU 17
Moss
tip growth, microtubules: DOONAN, COVE & LLOYD 131

Naegleria
amoeba cytopathogenic material, response of cultured cells to: DUNNEBACKE & SCHUSTER 1
Na, K, Cl concentrations
by X-ray microanalysis of HeLa cells infected with vaccinia virus: WARLEY & STEPHEN 401

Nuclear activation
in early germination in plant embryos: DELTOUR 43

Oxalic acid
secretion by *Sclerotinia* causes change in chloroplasts of *Phaseolus* after infection: TARIQ & JEFFRIES 195

Parental exposure
to serum-free medium, consequences for progeny cell division: LARSSON, ZETTERBERG & ENGSTRÖM 259
Partitioning
in detection of cell surface changes in *Dictyostelium* during growth: SHARPE & WATTS 339
Permeability of muscle fibres
to lanthanum ions in *Lymnea*: SWALES & GARDNER 181
Plant embryo
nuclear activation during early germination: DELTOUR 43
Plant pathogenesis
effects of *Sclerotinia* infection on chloroplasts of *Phaseolus*: TARIQ & JEFFRIES 195
Polymerization
in actin regulation in cytoskeleton of BHK cells: KOFFER & DARIDAN 239
Preprophase microtubule bands
in protophloem ontogeny in wheat: ELEFTHERIOU 165
Progeny cell division
effects of parental exposure to serum-free medium on: LARSSON, ZETTERBERG & ENGSTRÖM 259
Protein digestion
in study of effects of infection by *Sclerotinia* on chloroplasts of *Phaseolus*: TARIQ & JEFFRIES 195

Red alga
carposporogenesis, thylakoid formation: DELIVOPOULOS & KUGRENS 215
Regulatory proteins
in BHK cells: KOFFER & DARIDAN 239
Retinoic acid
-induced differentiation in mouse EC cells: PATERNO & MCBURNEY 149
Retraction
of flagella of *Ceratium tripos*: MARUYAMA 313
Root hairs
microtubules at tips form helical patterns: LLOYD & WELLS 225
Root protophloem ontogeny
and microtubules in wheat: ELEFTHERIOU 165

Receptor-mediated endocytosis
of α_2-macroglobulin complexes by human fibroblasts: VAN DER SCHUEREN, GASSER, MARYNEN, VAN LEUVEN, DAVID, CASSIMAN & VAN DEN BURGHE 411

Schizosaccharomyces pombe
growth in cell length: MITCHISON & NURSE 357
Sclerotinia
infection of *Phaseolus*, effect on chloroplasts: TARIQ & JEFFRIES 195
Serum-free medium
effect on progeny cell division of parental exposure to: LARSSON, ZETTERBERG & ENGSTRÖM 259
Sorting-out
of populations of *Dictyostelium* amoebae with different cell surface properties: SHARPE & WATTS 339
Spermatogenesis
in rat testis, glycolipid synthesis: LINGWOOD 329
Spindle
mitotic, architecture of microtubule component in *Dictyostelium discoideum*: MCINTOSH, ROOS, NEIGHBORS & MCDONALD 93
Stress-providing instrument
that applies tension or compression to cells *in vitro*: BANES, GILBERT, TAYLOR & MONBUREAU 35
Surface charge
of insect haematocytes, by cell electrophoresis and ferritin binding: TAKLE & LACKIE 207

Thylakoid development
in red alga, ultrastructure: DELIVOPOULOS & KUGRENS 215
Tip growth
of moss cells, microtubules: DOONAN, COVE & LLOYD 131
of root hairs, microtubules in helical patterns correspond to inner wall fibrils: LLOYD & WELLS 225
Triticum aestivum
microtubules and root protophloem ontogeny: ELEFTHERIOU 165
Tumour
effects of dietary fat on growth: CARRINGTON & HOSICK 269

Ultracytochemistry
of rat adenohypophyseal cells: KHOKHLOV & NEVOROTIN 303
Ultrastructure
of thylakoid development in *Faucheocolax*: DELIVOPOULOS & KUGRENS 215

Vaccinia virus
infection of HeLa cells, X-ray microanalysis: WARLEY & STEPHEN 401

wee mutants
in study of cell length in fission yeast: MITCHISON & NURSE 357

Wheat
reconstructed metaphase I cells, interlocked bivalents: HESLOP-HARRISON & BENNETT 85

X chromosome
inactivation during induced differentiation of a mouse cell line: PATERNO & MCBURNEY 149

X-ray analysis
in study of muscle fibre permeability to lanthanum ions: SWALES & GARDNER 181

X-ray microanalysis
of HeLa cells infected with vaccinia virus: WARLEY & STEPHEN 401